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Relevance scale

1 AGENTS: a distributed client-server system for leaf cell generation

Dilvan de Abreu Moreira, Les T. Walczowski

 January 1997 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**, Volume 2 Issue 1

 Full text available: [pdf\(727.66 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The AGENTS system is a set of programs designed to generate automatically the mask-level layout of full custom CMOS, BICMOS, and bipolar leaf cells. The system is formed from four sever programs: the placer, router, database, and broker. The placer places components in a cell, the router wires the circuits sent to it, the database stores all the information that is dependent upon the fabrication process, such as the design rules, and the Broker makes the services of the other serv ...

Keywords: client/server model, genetic algorithms, software agents

2 Towards agent-oriented assistance for framework instantiation

Alvaro Ortigosa, Marcelo Campo, Roberto Moriyón

 October 2000 **ACM SIGPLAN Notices , Proceedings of the 15th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications**, Volume 35 Issue 10

 Full text available: [pdf\(462.84 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this work we present a tool for assisting object-oriented framework instantiation based on Intelligent Agent technology. Differently from other approaches, the user is able to select the functionality needed for the new application, and based on this selection an agent elaborates a sequence of programming activities that should be carried out in order to implement it. In addition, the agent guides the execution of the activities according to the framework design. To enable this behavior, the ...

Keywords: application framework reuse, planning, software development, support tools

3 Introducing Ada 9X

John Barnes

 November 1993 **ACM SIGAda Ada Letters**, Volume XIII Issue 6

 Full text available: [pdf\(4.39 MB\)](#) Additional Information: [full citation](#), [citations](#), [index terms](#)

A framework for dynamic program analyzers

Bernd Bruegge, Tim Gottschalk, Bin Luo

October 1993 **ACM SIGPLAN Notices , Proceedings of the eighth annual conference on Object-oriented programming systems, languages, and applications,**

Volume 28 Issue 10

Full text available:  [pdf\(2.16 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

5 Performance prediction of parallel processing systems: the PAMELA methodology

Arjan J. C. van Gemund

August 1993 **Proceedings of the 7th international conference on Supercomputing**

Full text available:  [pdf\(1.05 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we present a new methodology for the performance prediction of parallel programs on parallel platforms ranging from shared-memory to distributed-memory (vector) machines. The methodology comprises a procedural program and machine specification paradigm based on PAMELA (PerformAnce ModEling LAnguage), along with a performance calculus, called "serialization analysis". This calculus extends conventional parallel program analysis technology by explicitly accounting for ...

6 Invited application paper: a proposal for the specialization of HA/DRE systems

Gary Daugherty

August 2004 **Proceedings of the 2004 ACM SIGPLAN symposium on Partial evaluation and semantics-based program manipulation**

Full text available:  [pdf\(176.39 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Working with High Assurance (HA) and Distributed, Real-time Embedded (DRE) applications, we have found numerous opportunities for software specialization. The problem has been that partial evaluation (PE) alone is insufficient to carry out all the useful forms of specialization that we envision. The contribution of this paper is to lay out a vision for the types of tool support, methods, *specialization models*, and *specialization patterns* that are needed to address these types of applications ...

Keywords: aspect, fast path, optimization, partial evaluation, pattern, refactoring, specialization model, specialization state

7 An embedded domain-specific language for type-safe server-side web scripting

Peter Thiemann

February 2005 **ACM Transactions on Internet Technology (TOIT)**, Volume 5 Issue 1

Full text available:  [pdf\(336.60 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

WASH/CGI is an embedded domain-specific language for server-side Web scripting. Due to its reliance on the strongly typed, purely functional programming language Haskell as a host language, it is highly flexible and---at the same time---it provides extensive guarantees due to its pervasive use of type information. WASH/CGI can be structured into a number of sublanguages addressing different aspects of the application. The *document sublanguage* provides tools for the generation of parameterized ...

Keywords: Interactive Web services, Web programming

8 A biological programming model for self-healing

Selvin George, David Evans, Steven Marchette

October 2003 **Proceedings of the 2003 ACM workshop on Survivable and self-regenerative systems: in association with 10th ACM Conference on Computer and Communications Security**

Biological systems exhibit remarkable adaptation and robustness in the face of widely changing environments. By adopting properties of biological systems, we hope to design systems that operate adequately even in the presence of catastrophic failures and large scale attacks. We describe a programming paradigm based on the actions of biological cells and demonstrate the ability of systems built using our model to survive massive failures. Traditional methods of system design require explicit p ...

9 Supporting objects in run-time bytecode specialization 

Reynald Affeldt, Hidehiko Masuhara, Eijiro Sumii, Akinori Yonezawa

September 2002 **Proceedings of the ASIAN symposium on Partial evaluation and semantics-based program manipulation**

Full text available:  pdf(215.36 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes a run-time specialization system for the Java language. One of the main difficulties of supporting the full Java language resides in a sound yet effective management of references to objects. This is because the specialization process may share references with the running application that executes the residual code, and because side-effects through those references by the specialization process could easily break the semantics of the running application. To cope with these d ...

Keywords: object-oriented paradigm, partial evaluation, program transformation, specialization

10 Implementing shared manufacturing services on the World-Wide Web 

J. W. Erkes, K. B. Kenny, J. W. Lewis, B. D. Sarachan, M. W. Sobolewski, R. N. Sum

February 1996 **Communications of the ACM**, Volume 39 Issue 2

Full text available:  pdf(404.10 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

11 Migration of legacy web applications to enterprise Java™ environments net.data® to JSP™ transformation 

Yu Ping, Jianguo Lu, Terence C. Lau, Kostas Kontogiannis, Tack Tong, Bo Yi

October 2003 **Proceedings of the 2003 conference of the Centre for Advanced Studies on Collaborative research**

Full text available:  pdf(165.69 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

As Web technologies advance, the porting and adaptation of existing Web applications to take advantage of the advancement has become an issue of increasing importance. Examples of such technology advancement include extensible architectural designs, more efficient caching protocols, and provision for customizable dynamic content delivery. This paper presents an experience report on the migration of legacy IBM® Net.Data® based applications to new enterprise Java

Keywords: Java 2 Enterprise Edition (J2EE™), JavaBeans, JavaServer pages, Net.Data, SQL, migration, model-view-controller (MVC), transformation

12 Java resources for computer science instruction 

Joseph Bergin, Thomas L. Naps, Constance G. Bland, Stephen J. Hartley, Mark A. Holliday, Pamela B. Lawhead, John Lewis, Myles F. McNally, Christopher H. Nevison, Cheng Ng, George J. Pothering, Tommi Teräsvirta

December 1998 **Working Group reports of the 3rd annual SIGCSE/SIGCUE ITiCSE conference on Integrating technology into computer science education**

Full text available:  pdf(107.98 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

13 Java resources for computer science instruction

Joseph Bergin, Thomas L. Naps, Constance G. Bland, Stephen J. Hartley, Mark A. Holliday, Pamela B. Lawhead, John Lewis, Myles F. McNally, Christopher H. Nevison, Cheng Ng, George J. Pothering, Tommi Teräsvirta
October 1998 **ACM SIGCUE Outlook**, Volume 26 Issue 4

Full text available:  [pdf\(2.23 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The goal of this working group was to collect, evaluate, and foster the development of resources to serve as components of both new and revised traditional courses that emphasize object-oriented software development using Java. These courses could, for example, integrate Internet-based distributed programming, concurrency, database programming, graphics and visualization, human interface design and object-oriented development. They could therefore also be suitable as capstone courses in computer ...

14 The peloton bicycling simulator

Gianpaolo U. Carraro, Mauricio Cortes, John T. Edmark, J. Robert Ensor
February 1998 **Proceedings of the third symposium on Virtual reality modeling language**

Full text available:  [pdf\(1.65 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

15 Empirical investigation of the Markov reference model

Vincenzo Liberatore
January 1999 **Proceedings of the tenth annual ACM-SIAM symposium on Discrete algorithms**

Full text available:  [pdf\(1.23 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

16 A Unix network protocol security study: network information service

David K. Hess, David R. Safford, Udo W. Pooch
October 1992 **ACM SIGCOMM Computer Communication Review**, Volume 22 Issue 5

Full text available:  [pdf\(346.59 KB\)](#) Additional Information: [full citation](#), [citations](#), [index terms](#)

17 A comparative evaluation of object definition techniques for large prototype systems

Jack C. Wileden, Lori A. Clarke, Alexander L. Wolf
October 1990 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 12 Issue 4

Full text available:  [pdf\(2.47 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Although prototyping has long been touted as a potentially valuable software engineering activity, it has never achieved widespread use by developers of large-scale, production software. This is probably due in part to an incompatibility between the languages and tools traditionally available for prototyping (e.g., LISP or Smalltalk) and the needs of large-scale-software developers, who must construct and experiment with large prototypes. The recent surge of interest in app ...

18 Object oriented design in a real-time multiprocessor environment

K. McQuown
January 1989 **Proceedings of the conference on Tri-Ada '89: Ada technology in context: application, development, and deployment**

Full text available:  [pdf\(1.58 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Object Oriented Design (OOD), with its emphasis on data encapsulation and rigorously

defined message passing interfaces, offers great possibilities for improving the reliability and maintainability of large-scale software. These improvements are made feasible for the first time in military avionics applications by the recent emergence of new computers with significant increases in processing power and memory capacity. Ironically, this newly available hardware, because it features mo ...

19 Secure program partitioning

Steve Zdancewic, Lantian Zheng, Nathaniel Nystrom, Andrew C. Myers

August 2002 **ACM Transactions on Computer Systems (TOCS)**, Volume 20 Issue 3

Full text available:  pdf(497.12 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents secure program partitioning, a language-based technique for protecting confidential data during computation in distributed systems containing mutually untrusted hosts. Confidentiality and integrity policies can be expressed by annotating programs with security types that constrain information flow; these programs can then be partitioned automatically to run securely on heterogeneously trusted hosts. The resulting communicating subprograms collectively implement the original p ...

Keywords: Confidentiality, declassification, distributed systems, downgrading, integrity, mutual distrust, secrecy, security policies, type systems

20 Coordination models, languages and applications: Coordinating functional processes with Haskell#

F. H. Carvalho, R. M. F. Lima, R. D. Lins

March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**

Full text available:  pdf(773.70 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents Haskell#, a parallel functional language based on coordination. Haskell# supports *lazy stream communication* and facilities, at coordination level, to the specification of *data parallel programs*. Haskell# supports a clean and complete, semantic and syntactic, separation between *coordination* and *computation* levels of programming, with several benefits to parallel program engineering. The implementation of some well-known ...

Keywords: Haskell, coordination, parallel functional programming, parallel software engineering

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generating "client program" syntax rule framev

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.NET Framework

... The system enforces the usual rules, so the **Framework** program can only ...
in an Object Oriented **client program**, the **syntax** will look something like: ...

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JavaRanch NewsLetter - October 2003 Volume 2 Issue 9

... to debunk the myth that the **rule syntax** is gratuitously hard to understand.
... The final move-generating **rule** looks for circular paths – states that ...

www.javaranch.com/newsletter/200310/NewsletterOctober2003.jsp - 101k - May 8, 2005 - [Cached](#) - [Similar pages](#)

The Code Project - Introduction to .NET - .NET

... Around 1995, Java was **generating** the same vigor as is generated by ...
The Actual communication between the **client program** and the web service takes ...
www.codeproject.com/dotnet/dotnet.asp - 96k - [Cached](#) - [Similar pages](#)

The Code Project - Secure Web Services via Message oriented ...

... is required to be extended and hence the proxy needs re-generating. ...
class is the means by which we identify our endpoint service using **URI syntax**. ...
www.codeproject.com/cs/webservices/WSClntRoute.asp - 172k - [Cached](#) - [Similar pages](#)

Glossary

... in which the normal rules of **XML syntax** apply (for example, ... A **client program** that uses the JAXR API to access a business registry via a JAXR ...
java.sun.com/webservices/docs/1.1/tutorial/doc/Glossary.html - 122k - [Cached](#) - [Similar pages](#)

J2EE v1.4 Glossary

... binding (XML): **Generating** the code needed to process a well-defined portion of XML data. ... in which the normal rules of **XML syntax** apply. ...
java.sun.com/j2ee/1.4/docs/glossary.html - 101k - May 8, 2005 - [Cached](#) - [Similar pages](#)

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... **.NET framework** library: Additional methods of the Socket class ... Eg,
ASN.1 (Abstract Syntax Notation 1), BER (Basic Encoding Rules) ...
www.cs.nyu.edu/courses/fall03/V22.0480-004/lectures/lect4.pdf - [Similar pages](#)

Oracle Applications Using ADO.NET and C#

... **.NET Framework** fundamentals, including building simple Windows Forms and Web Forms
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www.itcourseware.com/outline.cgi?course=oi-oraadoc&style=pf - 17k - [Cached](#) - [Similar pages](#)

[PDF] Program Generation

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... generating program source code which is subsequently compiled or interpreted-
... (concrete **syntax**). Motivation. Problem. Solution. **Client Program** ...
www.voelter.de/data/pub/ProgramGeneration.pdf - [Similar pages](#)

Network Access with GAWK

... the **client program** that was given in the first example of this chapter. ...
because the string would not obey the **syntax rule** for a string in GAWK ...
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5. [Course Descriptions - Fa98](#)

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... contact with a potential client will only set off "sales ... as its starting ingredients, generating carbohydrates and sulph safe to say it's the rule, not the exception ... nats-www.informatik.uni-hamburg.de/view/User/...?skin=print - 174k - [Cached](#) - [More from this site](#)

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